	Application No.	Applicant(s)
Notice of Allowability	10/720,108	 WANG, HWA-SIK
	Examiner	Art Unit
	Mohammad Ali	3744
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>10/25/03</u> .		
2. The allowed claim(s) is/are <u>1-9</u> .		
3. The drawings filed on 25 November 2003 are accepted by the Examiner.		
4. Acknowledgment is made of a claim for foreign priority una a) □ All b) □ Some* c) ☒ None of the: 1. ☒ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on oted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. □ A SUBSTITUTE OATH OR DECLARATION must be submit the complete of the priority and the submit the complete of the priority documents have a complete or the priority documents have a	been received. been received in Application No cuments have been received in this r of this communication to file a reply of ENT of this application. tted. Note the attached EXAMINER'	national stage application from the complying with the requirements
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary (Paper No./Mail Date 3), 7. ⊠ Examiner's Amendm	atent Application (PTO-152) (PTO-413), e nent/Comment nt of Reasons for Allowance

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Moses on 10/07/04. The application has been amended as follows:

The word "unto" in line 3 of claim 5 has been changed to a Phrase ----unit to------.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claim 1 is allowable because the prior art of record fails to disclose or suggest or teach the recited heat exchanger capable of heat-exchanging a high temperature refrigerant from the indoor unit with a refrigerant inputted into 'the outdoor unit, and an expansion unit adapted to receive a refrigerant of the heat exchanger and to expand for cooling the refrigerant are installed in the interior of the heat exchange unit; and a high temperature refrigerant from the indoor unit and a low temperature refrigerant from the outdoor unit are inputted into the heat exchange unit in the heating mode; and the high temperature refrigerant flows through the heat exchanger and the expansion unit and is heat exchanged with the low temperature refrigerant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mohammad Ali whose telephone number is 703-308-

5032. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Esquivel Denise can be reached on 703-308-2597. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

October 7, 2004

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